

## Numerical Investigation Of A Liquid Gas Ejector In Marine

NUMERICAL INVESTIGATION OF AN R744 LIQUID EJECTOR FOR ...Numerical investigation of the liquid-fueled pulse ...OSA | Numerical investigation of nematic liquid crystals ...Numerical investigation of liquid dispersion by ...Numerical Simulation of Liquid Droplet Coalescence and ...Numerical investigation of the effects of gas-liquid ratio ...Experimental and numerical investigation of acoustic ...(PDF) A Numerical Investigation of Transpiration Cooling ..."Numerical Investigation of Boiling in a Sealed Tank in ...Numerical Investigation of Tuned Liquid Damper Performance ...Numerical Investigation Of A LiquidA numerical investigation of the propulsion of water ...Numerical investigation of nonlinear oscillations of gas ...Bing: Numerical Investigation Of A LiquidJ MSE | Free Full-Text | Numerical Investigation of ...Numerical investigation of laminar flow and heat transfer ...Numerical Investigation of a Liquid-Gas Ejector Used for ...Experimental and Numerical Investigation of the ...Entropy | Free Full-Text | Numerical Investigation on the ...Numerical investigation of a mixture two-phase flow model ...Numerical Investigation of Liquid-Liquid Coaxial Flows ...

### NUMERICAL INVESTIGATION OF AN R744 LIQUID EJECTOR FOR ...

Numerical investigation of nematic liquid crystals in the THz band based on EIT sensor Peng-Yuan Wang, Tao Jin, Fan-Yi Meng, Yue-Long Lyu, Daniel Erni, Qun Wu, and Lei Zhu Author Information . Author Affiliations.

### Numerical investigation of the liquid-fueled pulse ...

This paper presents a numerical investigation of an R744 liquid ejector applied to a supermarket refrigeration system. The use of the liquid ejector enables the operation of the evaporator in a flooded mode and recirculates the R744 liquid phase, which improves the energy efficiency of the refrigeration system.

### OSA | Numerical investigation of nematic liquid crystals ...

Numerical Method The geometry under consideration is that of an axisymmetric liquidlensphaseA of density  $F_A$  floating on a subfluid phase B of density  $F_B$ . Above both the lens and the subphase, there is a vapor (or liquid) phase C of density  $F_C$ . The interfaces between the liquids have surface tensions denoted by  $\sigma_{AC}$ ,  $\sigma_{BC}$ , and  $\sigma_{AB}$  (Figure 2).

### Numerical investigation of liquid dispersion by ...

Physics of Fluids is a preeminent journal devoted to publishing original theoretical, computational, and experimental contributions to the understanding of the dynamics of gases, liquids, and complex or multiphase fluids.

### **Numerical Simulation of Liquid Droplet Coalescence and ...**

where  $d$  is the mean droplet diameter [mm];  $D$  is the diameter of the initial liquid [mm];  $u$  is the initial velocity [m/s];  $\sigma$  is the surface tension coefficient [mN/m];  $\theta$  is the contact angle; and  $u_0$ ,  $\sigma_w$ ,  $\mu_w$ , and  $\theta_s$  are the reference values, which are 0.1 m/s, 74.92 mN/m, 1.31 mPa, and 75°, respectively.

### **Numerical investigation of the effects of gas-liquid ratio ...**

This paper developed a three-dimensional model to simulate the process of atomization and liquid film formation during the air-blast spray cooling technological process. The model was solved using the discrete phase model method. Several factors including the thermodynamic characteristics of the liquid film as well as the spray quality with different spray mass flow rates under different spray ...

### **Experimental and numerical investigation of acoustic ...**

NASA's missions in space depend on the storage of cryogenic fluids for fuel and for life support. During long-term storage, heat can leak into the cryogenic fluid tanks. Heat leaks can cause evaporation of the liquid, which pressurizes the tank. However, when the tanks are in a microgravity environment, with reduced natural convection, heat leaks can also create superheated regions in the liquid.

### **(PDF) A Numerical Investigation of Transpiration Cooling ...**

Numerical Investigation of Liquid-Liquid Coaxial Flows Bhadraiah Vempati, Bhadraiah Vempati Department of Mechanical Engineering & Mechanics, ... This paper presents numerical results of the interfacial dynamics of axisymmetric liquid-liquid flows when the denser liquid is injected with a parabolic inlet velocity profile into a coflowing ...

### **"Numerical Investigation of Boiling in a Sealed Tank in ...**

A numerical investigation of the propulsion of water walkers - Volume 668 - PENG GAO, JAMES J. FENG Skip to main content Accessibility help We use cookies to distinguish you from other users and to provide you with a better experience on our

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## **Numerical Investigation of Tuned Liquid Damper Performance ...**

Abstract. Violent sloshing induced by excitation with large amplitudes or resonant frequencies may result in structural damage of the liquid-tank or even the overturning of the liquid cargo transport system. Therefore, impermeable and permeable vertical baffles were investigated numerically to suppress sloshing.

## **Numerical Investigation Of A Liquid**

This article presents a numerical approach to investigate the transpiration cooling problems with coolant phase change within porous matrix. A new model is based on the coupling of the two-phase ...

## **A numerical investigation of the propulsion of water ...**

Numerical simulations are based on a fully hyperbolic and conservative mixture model that include a relative velocity equation. • Finite volume Godunov methods are extended to the mixture model. • Validation and comparison of a mixture model gas-liquid flows.

## **Numerical investigation of nonlinear oscillations of gas ...**

In this study, high-pressure water and air, instead of ballast water and ozone, are considered through extensive numerical and experimental research. The ejector is particularly studied by a steady three-dimensional multiphase computational fluid dynamics (CFD) analysis with commercial software ANSYS-CFX 14.5.

## **Bing: Numerical Investigation Of A Liquid**

In liquid aluminium, the numerical model overestimation is small for RMS pressures under the sonotrode and slightly larger for RMS pressures on the sides, but the trend of pressure increasing with amplitude is captured correctly. In aluminium, the numerical RMS pressures are closer to the experiments than the maximum pressures. So the model may not predict accurately the trend in variation of the side pressures in water, ethanol, and glycerol but in the case of liquid aluminium, which is ...

## **JMSE | Free Full-Text | Numerical Investigation of ...**

ABSTRACT. Forced oscillations of a spherical gas bubble in an incompressible, viscous liquid (water) are calculated numerically. The information gathered is mainly displayed in the form of frequency response curves of the steady-state solutions showing the harmonics, subharmonics, and ultraharmonics. Bubbles oscillating ultraharmonically at frequencies below the main resonance may emit half the driving frequency.

## **Numerical investigation of laminar flow and heat transfer ...**

A detailed numerical analysis of a liquid metal cooled mini-channel is presented. • Geometric and flow parameters of the mini-channel heat sink are optimized. • Hydraulic and thermal performance of the liquid metal is critically analyzed. • Performance of liquid metal is compared with other coolants like water and nanofluids. •

## **Numerical Investigation of a Liquid-Gas Ejector Used for ...**

Numerical Investigation of a Tuned Liquid Damper Performance Attached to a Single Degree of Freedom Structure . By Omar Al Jamal, B.Sc. A Thesis . Submitted to the School of Graduate Studies . In Partial Fulfillment of the Requirements . For The Degree . Master of Applied Science .

## **Experimental and Numerical Investigation of the ...**

This paper studied the evolution of binary droplet collision in liquid and also a mathematical calculation method of coalescence time. Binary droplet collisions occur in many engineering applications; however, the accurate models to predict the collision of droplets in the liquid are still lacking.

## **Entropy | Free Full-Text | Numerical Investigation on the ...**

$S_{md} = \pi \rho d^4 \left( \left( \frac{d}{d_n} \right)^2 \right)^3 - \left( \frac{d}{d_{n+1}} \right)^2 \right)^3$ . (35) In (35),  $\rho d$  is the liquid fuel density,  $d_n$  is the diameter of the liquid droplet at time  $t_n$ , and  $d_{n+1}$  is the diameter of the liquid droplet at time  $t = t_n + \Delta t$ . Mass change due to the breakup is defined as.  $\pi \rho d^4 \left( \left( \frac{d}{d_n} \right)^2 \right)^3 = \sum_{i=1}^N$ .

## **Numerical investigation of a mixture two-phase flow model ...**

We investigate the effects of gas-liquid ratio (GLR) on the spray and atomization process of a liquid-centered swirl coaxial injector using the coupled level-set and volume of fluid (CLSVOF) method. The flow field, gas-liquid interaction, and breakup of liquid film during adaptive mesh refinement are evaluated and analyzed.

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